



**INDIAN RIVER COUNTY, FLORIDA
DEPARTMENT OF UTILITY SERVICES**

Date: November 29, 2018
To: Jason E. Brown, County Administrator
From: Vincent Burke, PE, Director of Utility Services
Prepared By: Arjuna Weragoda, PE, Capital Projects Manager
Subject: Barrier Island Reclaimed Water Main System Analysis

DESCRIPTIONS AND CONDITIONS:

Indian River County has historically provided reclaimed water (a.k.a. reuse) to area golf courses for irrigation. Recently, as part of the capital improvement plan implementation outlined in the Reclaimed Water Franchise Agreement between the Town of Indian River Shores (Town) and Indian River County, the expansion of the County's reuse system evaluation is a requirement. However, this process began seven years ago. As part of that process to provide reclaimed water service to Indian River Shores and the North Barrier Island (south of SR 510), on December 13, 2011, the Indian River County Board of County Commissioners (BCC) approved Work Order No. 1 to Schulke, Bittle & Stoddard, LLC. Only the hydraulic analysis portion of Phase I of that work order was complete when the project was halted in March 2012 due to the termination of the City of Vero Beach (City) water and wastewater utilities purchase agreement between the City and Indian River County, and the Town signing a franchise agreement with the City for the City to provide reuse.

ANALYSIS:

Staff reached out to Schulke, Bittle & Stoddard, LLC (SBS) to perform an engineering feasibility analysis to run a pressurized reuse transmission main along the A1A corridor fed from a storage and repump station at the Sea Oaks Wastewater Treatment Plant (WWTP) site. Given the tight constraints of existing infrastructure within the A1A corridor, in order to accurately determine the feasibility of a reuse transmission main, SBS re-evaluated the corridor prior to submitting a proposal. As part of the evaluation, SBS determined the need for extensive existing utility locates in, around, and under the A1A right-of-way corridor.

This analysis will be accomplished by SBS securing an underground utility contractor to physically locate the existing underground utilities via pot holing. Once the underground existing utilities are located, the horizontal and vertical information will be surveyed. Therefore, approximately 52.3% of the cost of the subject work order is attributed to locating the existing underground utilities within the A1A corridor in order to accurately determine if a reuse main can be installed.

The work order has been provided in accordance with the Continuing Contract Agreement for Professional Engineering Services with SBS dated April 17, 2018. The scope is more specifically described in the attached Work Order No. 3. The total negotiated cost for Work Order No. 3 is a total sum amount of

\$102,800.00. If approved, please note that the initial surveying work will not start until mid-January 2019 due to the current work load the consultants are experiencing. Therefore, substantial completion of this evaluation is estimated to take six to eight months from notice to proceed.

FUNDING:

Funding for the North County Reuse Main System is available within the Utilities Capital Fund. Capital fund revenues are generated from impact fees. Furthermore, new growth has created the need for the expansion and construction of the facilities, and that new growth will benefit from the expansion and construction of the facilities. If the project does not come to fruition, the expenses will have to be transferred to Other Professional Services in the operating fund. Operating funds are generated from water and sewer sales.

Description	Account Number	Amount
Barrier Island Reuse Main System Feasibility Analysis	472-169000-18532	\$102,800.00

RECOMMENDATION:

Staff recommends approval of Work Order No. 3 authorizing the mentioned professional services and requests the Board to authorize the Chairman to execute Work Order No. 3 on their behalf for a total sum amount of \$102,800.00 to Schulke, Bittle & Stoddard, LLC.

ATTACHMENT(s):

Work Order No. 3 and supporting documents (17 Pages)